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(54) NOVEL CALCITONIN

(57) Abstract:

NEW MATERIAL: A peptide hormone shown by the formula (Cys is cysteine; Ser is serine; Asn is asparagine; Leu is leucine; Thr is threonine; Val is valine; Gly is glycine; Lys is lysine; Gln is glutamine; Glu is glutamic acid; His is histidine; Tyr is tyrosine; Pro is proline; Arg is arginine; Ala is alanine).

USE: A remedy for Behcet's disease or osteoporosis, or an improver for hyperkalemia, capable of being supplied stably by a synthetic means.

PREPARATION: For example, firstly N-protected proline is bonded to an amino group-containing insoluble

resin (e.g., benzhydrylamin resin, etc.) by a solid-phase synthesis method, protected amino acids are successively linked by a desired sequence to the resin, which is treated with hydrogen fluoride to eliminate the resin and the protecting group. Then, the resultant substance is treated with an oxidizing agent such as usually oxygen in the atmosphere or an oxidizing agent such as ferricyanate, etc., and ring formation is carried out by subjecting cysteine at 1 and 7 positions to disulfide bond.

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